

What is claimed is:

1. An isolated mutant Alcohol Dehydrogenase 7 (ADH7) nucleotide comprising one or more of SEQ ID NOS: 2-7.

2. The nucleotide according to claim 1, further comprising appearing in human wild-type Alcohol Dehydrogenase 7 (ADH7) gene.

3. The nucleotide according to claim 1, comprising SEQ ID NO: 2.

4. The nucleotide according to claim 1, wherein said nucleotide is capable of triggering Parkinson's disease in a human and/or passing the disease to a later human generation.

5. An isolated nucleic acid probe consisting of one of SEQ ID NOS: 1-7.

6. A nucleotide which is capable of specifically hybridizing under stringent conditions to a nucleotide according to claim 1.

7. A vector comprising a nucleotide according to claim 1.

8. A recombinant cell comprising a vector according to claim 7.

9. A kit comprising a nucleotide according to claim 1.

10. A kit comprising means for detecting at least one of SEQ ID NOS: 1-7.